### Lepinski, Jim

From:

Loock, Jim

Sent:

Monday, March 12, 2001 12:07 PM

To:

Kosobucki, Terri Lepinski, Jim

Cc: Subject:

FW: Preventative Maintenance Plan















& Inspection ...

Inspection ...

Inspection O...

Inspection ...

PLAN-Maintenance GUIDE-Distribution FORM-Distribution GUIDE-Distribution GUIDE-Monthly Purchase Point S... Distribution Su... Point Substation...

**GUIDE-Monthly** 

**FORM-Purchase** 



**GUIDE-Annual GUIDE-Annual** FORM-Distribution Substation I... Purchase Point Su... Distribution Sub

I just received this "electronic filing" from Dahlberg Light & Power Co. This doesn't seem to be what we had in mind. It looks like we may need to be more specific in our instructions on how to file. Any thoughts?

----Original Message----

From: James C. Newman [mailto:dahlberg@centurytel.net]

Sent: Monday, March 12, 2001 11:33 AM

To: loockj@psc.state.wi.us

Subject: Preventative Maintenance Plan

March 12, 2001

James D. Loock Chief Engineer Electric Division

Public Service Commission of Wisconsin

Dear Mr. Loock:

Attached are 10 Files that contain our proposed Preventative Maintenance Plan.

The Files are listed below with the # of pages included. You should be able to open them and print out the Guides and Forms and put them in numerical order to form the Plan.

NAME OF

FILE

OF PAGES

#

PLAN-Maintenance and

Inspection

Guide-Distribution Inspection

Form-Distribution Inspection OH &

Guide-Distribution Inspection

Guide-Monthly Purchase Point Sub

Inspection

Guide-Monthly Distribution Sub

Inspection

Form-Purchase Point Substation

Inspection

Form-Distribution Substation

Inspection

5 pages

2 pages

2 pages

1 page

3 pages

2 pages

6 pages

4 pages

Guide-Annual Purchase Point Sub Inspection Guide-Annual Distribution Sub Inspection

1 page

1 page

If you have any question or concerns please do not hesitate to contact me at your convenience.

Sincerely

James C. Newman Vice President of Commercial Dahlberg Light & Power Co.

### PREVENTATIVE MAINTENANCE PLAN

### Dahlberg Light & Power Co

March 9, 2001

James Dahlberg
Solon Springs, WI 54873
715.378.2205
dahlberg@centuryinter.net

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### I. Preventative Maintenance Plan

The PSC 113.0607 rule reads;

Appropriate inspection and maintenance: system reliability.

- (1) PREVENTATIVE MAINTENANCE PLAN. Each utility or other person subject to this chapter, including persons who own electric generating facilities in this state who provide service to utilities with contracts of five years or more, shall develop and have in place its own preventative maintenance plan. This section is applicable to electric generating facilities as set forth at s. 194.491(5)(a)(1), Stats. Each plan shall include, among other things, appropriate inspection, maintenance and replacement cycles where applicable for overhead and underground distribution plant, transmission, generation<sup>1</sup>, and substation facilities.
- (2) CONTENTS OF THE PLAN. (a) *Performance standard*. The Preventative Maintenance Plan shall be designed to ensure high quality, safe, and reliable service, considering: cost, geography, weather, applicable codes, national electric industry practices, sound engineering judgment and experience.
- 1 PSC staff interpretation is that generation applies to individual generators equal to or greater than 50 MW.

### II. Inspection Schedule and Methods:

The purpose of this plan is to maintain or improve the electrical system reliability with the objective of increased loyalty and satisfaction from our constituents. The goals are to meet and exceed the schedules established in this plan.

Exception reporting (inspected equipment not in good condition) will be the method of documentation on all inspection forms.

The scope of this plan is traditional and uses proven maintenance techniques. Unique operating and maintenance philosophies have not been considered. Also, manufacturer defects will be dealt with as they are communicated to this utility.

**EVERY** 

SCHEDULE:	MONTHLY	ANNUAL	5 YEARS
Substations	X	X	
Distribution (OH & UG)			X

The inspection of Distribution facilities will be by individual substation circuits on a 5-year cycle such that the entire system will be inspected every 5 years. Inspector instructions for inspecting all facilities and forms are included with the plan.

METHODS: Four criteria groups will be used to complete the inspection of all facilities.

- 1. <u>RFI</u> Radio Frequency Interference, a byproduct of loose hardware and connections, is checked using an AM radio receiver.
- 2. <u>SI</u> structural integrity of all supporting hardware including poles, crossarms, insulators, structures, bases, foundations, buildings, etc.
- 3. <u>Clearance</u> refers to proper spacing of conductors from objects, trees and other utility cables.
- 4. <u>EC</u> equipment condition on non-structural components such as circuit breakers, transformers, regulators, reclosers, relays, batteries, capacitors, etc.

### III. Condition Rating Criteria:

This criterion, as listed below, establishes the condition of a facility and also determines the repair schedule to correct deficiencies.

- 1) Good condition but aging
- 2) Non-critical maintenance required normally repair within 12 months
- 3) Priority maintenance required normally repair within 90 days
- 4) Urgent maintenance required report immediately to the utility and repair normally within 1 week

### IV. Corrective Action Schedule

The rating criteria as listed above determine the corrective action schedule.

### V. Record Keeping

All inspection forms and records will be retained for a minimum of 10 years. The inspection form contains all of the required critical information i.e. inspection dates, condition rating, schedule for repair and date of repair completion.

### VI. Reporting Requirements

A report and summary of this plan's progress will be submitted every two years with the first report due to the Commission by February 1, 2003. The report will consist of a letter documenting the percent of inspections achieved compared to the schedule and a description of maintenance achieved within the scheduled time allowance.

### VII DISTRIBUTION – OVERHEAD INSPECTION GUIDE

### **STRUCTURE**

- Pole Condition
- Pole Leaning
- Crossarm Condition
- Insulators, Deadend, Pin
- Excess Fill or Soil Removal
- Pole Steps
- Grounds Intact
- Ground Molding
- Down Guys
- Guy Markers
- Guy Bonding/Insulator
- Signage Location Number, Warning Sign
- Customer Equipment
- Conductor
- Tie Wires
- U Guard/Conduit Condition

### **EQUIPMENT**

- Transformers
  - ✓ Oil Leaks
  - ✓ Bushing Condition
  - ✓ Grounding/Bonding
- Capacitors
  - ✓ Fuses Blown
  - ✓ Bushing Condition
  - ✓ Oil Leaks
  - ✓ Tank Bulged
  - ✓ Switches, Oil, Vacuum
  - ✓ Control Conduit/Wiring
  - ✓ Grounding/Bonding
- Switches GOAB, Inline, Disconnect
  - ✓ Insulator Condition
  - ✓ Operating Handle/Locks
  - ✓ Linkage
  - ✓ Grounding/Bonding
  - ✓ Switch Number
- Cutouts
  - ✓ Insulator Condition
  - ✓ Fuse Size Tag

### VII DISTRIBUTION - OVERHEAD INSPECTION GUIDE (con't)

### EQUIPMENT (CON'T)

- Arrestor
  - ✓ Insulator Condition
  - ✓ Connections
  - ✓ Ground Lead Disconnection
- Cable Terminators
  - ✓ Insulator Condition
  - ✓ Grounding/Bonding

### **CLEARANCES**

- Ground Line
- Buildings, Bridges, Swimming Pool, Etc.
- Communications Facilities
- Fuel Tanks
- Other Electric Utilities
- Transmission Lines
- Over Streets, Roads, Alleys, Highways
- Tree Trimming
  - ✓ Clearance From Line
  - ✓ Vines on Poles
  - ✓ Danger Trees

### RFI CHECK

OH system with AM radio as each circuit is inspected

inspected by. OVERHEAD DISTRIBUTION INSPECTION FORM

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Corrected By Date Item Corrected 2) Non-critical Maintenance Required 3) Priority Maintenance Required 4) Urgent Maintenace Required 1) Good Condition but aging COMMENTS Rating Criteria Communication Clearance CLEARANCE Streets, Roads, Alleys **Building Clearances** Ground Line Clearances Tree Trimming Street Light EQUIPMENT Terminators Arresters Cutouts Switches Transformer KEI Check U'Guard/Conduit Cond Conductor and Ties Customer Equipment Signs, Loc#, Warning STRUCTURE Guy Bond, Insulator Down Guys and Markers Grounds Intact, Molding Pole Steps Soil Conditions Insulators, DE, Pin Crossarm Condition Pole Condition/Leaning MAP AREA LOCATION

### VIII DISTRIBUTION - UNDERGROUND INSPECTION GUIDE

### STRUCTURAL (Exterior & Interior) Transformer, Primary Pedestal, Secondary Pedestal, Switchgear.

- Enclosure Condition
- Level/Leaning
- Security
- Grade/Accessibility (Shrubs, Customer Facilities, Fill/Excavation)
- Numbering
- Voids/Gaps
- Signage Location Number, Warning Sign
- Pad/Vault Condition

### **EQUIPMENT**

- Transformers
  - ✓ Oil Leaks
  - ✓ Bushing Condition
  - ✓ Grounding/Bonding
  - ✓ Elbows
  - ✓ Arrestors
  - ✓ Feed-Through
  - ✓ Cable Condition
  - ✓ Secondary Connections
- Primary Pedestals
  - ✓ Elbows
  - ✓ Junction Condition
  - ✓ Grounding/Bonding
- Secondary Pedestals
  - ✓ Secondary Connections
- Switches URD Switchgear
  - ✓ Insulator Condition
  - ✓ Operating Handle Security
  - ✓ Linkage
  - ✓ Grounding/Bonding
  - ✓ Switch Number/Fuse Size & Number

### IX PURCHASE POINT SUBSTATION - MONTHLY INSPECTION GUIDE

### TRANSFORMER MAIN TANK:

- Oil in bushings
- Bushing and arrestor porcelain
  - ✓ Cracks or chips
  - ✓ Rust or dirt
- Oil leaks
  - ✓ Main tank
  - ✓ Sample valves
  - ✓ Radiators
- Radiator bank
  - √ warm on top, cool at bottom
- Tank pressure
- Tank oil level
- Temperature gauge
- Cooling fans

### TRANSMISSION CIRCUIT BREAKERS:

- OPEN/CLOSED indicator
- Cabinet heater
- Operations counter
- Bushings and supports
  - ✓ Cracks or chips
  - ✓ Rust or dirt
- Line and load side disconnect switches
  - ✓ Properly labeled
  - ✓ Aligned properly
- Handles grounded
- Emergency trip button
- Air / Oil compressors
- Air / Oil pressure gauge
- Spring operated mechanism
- Oil level gauge
- Tank oil leaks
- Reset switch
- Vents clean

### IX PURCHASE POINT SUBSTATION - MONTHLY INSPECTION GUIDE (con't)

### FEEDER CIRCUIT BREAKERS / RECLOSERS

- OPEN/CLOSED indicator
- Cabinet light
- Cabinet heater
- Operations counter
- Bushings and supports
  - ✓ Cracks or chips
  - ✓ Rust or dirt
- Line and load side disconnect switches
  - ✓ Labeled properly
  - ✓ Aligned properly
  - ✓ Handles grounded
- Emergency trip button
- Oil level gauge
- Tank oil leaks
- Reset switch
- Vents clean

### HIGH AND LOW VOLTAGE BUSS WORK:

- Bushing, insulator, arrestor, and support insulators
  - ✓ Chips or cracks
  - ✓ Rust or dirt
- Bird nests
- Potential transformers bushings
  - ✓ Cracks or chips
  - ✓ Rust or dirt

### MANUAL SWITCHES:

- · Properly labeled
- Ground connections
- Positioning and alignment
- Bushing and support insulators
  - ✓ Cracks or chips
  - ✓ Rust or dirt

### IX PURCHASE POINT SUBSTATION - MONTHLY INSPECTION GUIDE (con't)

### CONTROL HOUSE/MISCELLANEOUS:

- Clock displays proper time
- AC/DC load center breakers
- Room temperature
- Rodents
- Panels labeled properly
- Panel lights
- Annunciator panel
- Panel meters
- SCADA system RTU
- SCADA alarms
- Position indicators agree
- Relay target information
- Emergency contact directory & dial tone for phone
- Safety Equipment

### **BATTERY**:

- Liquid levels
- Proper float voltage on charger and battery
- Specific gravity in pilot cell
- Personal Protective Equipment
- Connection corrosion
- Leaking cells
- Dated solution in eyewash station

### YARD AND FENCE:

- Fire extinguisher charged
- Fence ground connections
- Fence secured
- Security and emergency lights
- Site base and grade
- Standing water
- Warning signs

### X DISTRIBUTION SUBSTATION - MONTHLY INSPECTION GUIDE

### TRANSFORMER MAIN TANK:

- Oil in bushings
- Bushing and arrestor porcelain
  - ✓ Cracks or chips
  - ✓ Rust or dirt
- Oil leaks
  - ✓ Main tank
  - ✓ Sample valves
  - ✓ Radiators
- Tank pressure
- Tank oil level
- Temperature gauge

### TRANSFORMER LTC or VOLTAGE REGULATORS:

- Tank oil level
- Drag hand positions
- Operation count

### FEEDER CIRCUIT BREAKERS / RECLOSERS

- OPEN/CLOSED indicator
- Operations counter
- Bushings and supports
  - ✓ Cracks or chips
  - ✓ Rust or dirt
- Line and load side disconnect switches
  - ✓ Labeled properly
  - ✓ Aligned properly
  - ✓ Handles grounded
- Tank oil leaks
- · Reset switch
- Vents clean

### X DISTRIBUTION SUBSTATION - MONTHLY INSPECTION GUIDE (con't)

### HIGH AND LOW VOLTAGE BUSS WORK:

- Bushing, insulator, arrestor, and support insulators
  - ✓ Chips or cracks
  - ✓ Rust or dirt
- Bird nests
- Cable terminators
  - ✓ Leaking fluid
  - ✓ Cracks or chips

### **MANUAL SWITCHES:**

- Properly labeled
- Ground connections
- Positioning and alignment
- Bushing and support insulators
  - ✓ Cracks or chips
  - ✓ Rust or dirt

### YARD AND FENCE:

- Fire extinguisher charged
- Fence ground connections
- Fence secured
- Security and emergency lights
- Site base and grade
- Standing water
- Warning signs

	AS	E POINT SUBSTATION I	NOPECIO	IN FUKIV
INSPECTED BY:				
DATE:			Party.	
SUBSTATION:				
TRANSFORMER MAIN TANK		RATING: 1 2 3 4	(Circle One)	
inspected	X	COMMENTS	DATE CORRECTED	CORRECTED BY
Oil in Bushings				
Bushing and Arrestor				
Oil Leaks				
Main Tank				
Sample Valves				
Radiators				
Radiator Bank				
Tank Pressure				
Tank Oil Level				
Temperature Gauge				
Cooling Fans				
TRANSFORMER LTC or VOLTAGE REGULATORS		RATING: 1 2 3 4	(Circle One)	
Tank Oil Level				
Drag Hand Positions				
Operation Count				
	<b>T</b>			
	$\Box$			

INSPECTED BY:				
DATE:			<del></del>	***************************************
SUBSTATION:				
HIGH VOLTAGE CIRCUIT BREAKER / CIRCUIT SWITCHER		RATING: 1 2 3 4	(Circle One)	
inspected	х	COMMENTS	DATE CORRECTED	CORRECTED BY
OPEN/CLOSED Indicator				
Operations Counter				
Bushings and Supports				
Line and Load Side Disconnect Switches				
Handles Grounded				
Emergency Trip Button				
Air Compressors - Air / Oil				
Air Pressure Gauge - Air / Oil				
Spring Operated Mechanism				
Oil Level Gauge				
Tank Oil Leaks				
Reset Switch				
Vents Clean				

MONTHLY PURCHAS	E	POINT SUBSTATION INS	SPECTION FORM
INSPECTED BY:			
DATE:			
SUBSTATION:			
FEEDER CIRCUIT BREAKER / RECLOSER		RATING: 1 2 3 4	(Circle One)
inspected	X	COMMENTS	DATE CORRECTED BY
OPEN/CLOSED Indicator			
CHARGED/DISCHARGED Indicator			
Cabinet Light			
Cabinet Heater			
Operations Counter			
Bushings and Supports			
Line and Load Side Disconnect Switches			
Emergency Trip Button			
Oil Level Gauge			
Tank Oil Leaks			
Reset Switch			
Vents Clean			
Gas Pressures for GCBs			
	<u> </u>		

MONTHLY PURCHASE	PO	INT SUBS	TA	ΓIO	N IN	ISPECTIO	N FORM
INSPECTED BY:							
DATE:							
SUBSTATION:							
HIGH & LOW VOLTAGE BUSS WORK	-	RATING: 1	2	3	4	(Circle One)	
inspected	x	COMN	MENTS	3		DATE CORRECTED	CORRECTED BY
Bushing, Insulator, Arrestor, and Supports			<del></del>				
Bird Nests							
Transformer Bushings							
							<u></u>
					***		
						!	
MANUAL SWITCHES		RATING: 1	2	3	4	(Circle One)	
Properly Labeled							
Ground Connections							
Positioning and Alignment							
Bushings and Supports							
				-			
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MONTHLY PURCHASE	FUINT SUBSTATION IN	ISPECTION FURIN
INSPECTED BY:		
DATE:	A Company of the Comp	
SUBSTATION:		
CONTROL HOUSE/MISCELLANEOUS	RATING: 1 2 3 4	(Circle One)
inspected X	COMMENTS	DATE CORRECTED BY
Clock Displays Proper Time		
AC/DC Load Center Breakers		
Room Temperature		
Rodents		
Panels Labeled Properly		
Panel Lights		
Annunciator Panel		
Panel Meters		
SCADA System RTU	-	
SCADA Alarms		
Position Indicators Agree		
Relay Target Information		
Emergency Contact Directory &		
Dialtone for Phone		
Safety Equipment		
BATTERY	RATING: 1 2 3 4	(Circle One)
Liquid Levels		
Proper Float Voltage on Charger & Battery		
Specific Gravity in Pilot Cell		
Personal Protective Equipment		
Connection Corrosion		
Leaking Cells		
Dated Solution in Eyewash Station		
YARD & FENCE	RATING: 1 2 3 4	(Circle One)
Fire Extinguisher Charged		
Fence Ground Connections		
Fence Secured		
Security and Emergency Lights		
Site Base and Grade		
Standing Water		
Warning Signs		

MONTHLY DISTRIBL	<b>JTION SUBSTATION INSP</b>	PECTION FORM							
INSPECTED BY:									
DATE:									
SUBSTATION:									
TRANSFORMER MAIN TANK	RATING: 1 2 3 4	(Circle One)							
inspected X	COMMENTS	DATE CORRECTED BY							
Oil in Bushings									
Bushing and Arrestor									
Oil Leaks									
Main Tank									
Sample Valves									
Radiators									
Tank Pressure									
Tank Oil Level									
Temperature Gauge									
TRANSFORMER LTC or VOLTAGE REGULATORS	RATING: 1 2 3 4	(Circle One)							
Tank Oil Level									
Drag Hand Positions									
Operation Count									

### ANNUAL TRANSMISSION INSPECTION FORM

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Sub

Inspected by\_

Date

	1				 			 	 , T	 	_		_	 
	Corrected													
	Date Item Corrected													
COMMENTS	Rating Criteria													
	Communication Clearance													
ICE	Streets, Roads, Alleys													
RAN	Building Clearances		$\top$					 						
CLEARANCE	Ground Line Clearances			1										
	DrimminT 991T			+								<u> </u>		
MENT	Riesters													
EQUIPMENT	Switches													
	КЕІ СРеск													
	Conductor and Ties			1										
	Customer Equipment													
	Signs, Loc#, Warning			1										
RE	Guy Bond, Insulator													
T.	Down Guys and Markers				 									
STRUCTURE	Grounds Intact, Molding			1										
STF	Pole Steps			7			 			 				
	snoifibnoO lioS			1										$\neg$
	Insulators, DE, Pin	_		1							-			
	Crossarm Condition													$\dashv$
	Pole Condition/Leaning		$\top$	$\dashv$		 								
MAP AREA	LOCATION													

MONTHLY DISTRIB	UI	TION SUBSTATION INS	PECTION	FORM
INSPECTED BY:				
DATE:				
SUBSTATION:				
FEEDER CIRCUIT BREAKER / RECLOSER		RATING: 1 2 3 4	(Circle One)	
inspected	х	COMMENTS	DATE CORRECTED	CORRECTED BY
OPEN/CLOSED Indicator				
Operations Counter				
Bushings and Supports				
Line and Load Side Disconnect Switches				
Tank Oil Leaks				
Reset Switch				
Vents Clean				
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MONTHLY DISTRIBUTION	ON SUBSTATION	INS	PECTION	FORM
INSPECTED BY:		**		
DATE:				
SUBSTATION:			**************************************	7-11
HIGH & LOW VOLTAGE BUSS WORK	RATING: 1 2 3	4	(Circle One)	
inspected X	COMMENTS		DATE CORRECTED	CORRECTED BY
Bushing, Insulator, Arrestor, and Supports				
Bird Nests				
Transformer Bushings				
			-	
MANUAL SWITCHES	<b>RATING:</b> 1 2 3	4	(Circle One)	
Properly Labeled				
Ground Connections				
Positioning and Alignment				
Bushings and Supports				
YARD & FENCE	RATING: 1 2 3	4	(Circle One)	
Fire Extinguisher Charged				
Fence Ground Connections				
Fence Secured				
Security and Emergency Lights				
Site Base and Grade				
Standing Water				
Warning Signs				

### XI Substation (Purchase Point) - Annual Inspection Guide

- Check equipment for level
- Check condition of concrete pads
- Battery

  - ✓ Intercell strap resistance ✓ Individual cell voltages
  - ✓ Cell specific gravity
- Nameplate legible
- Equipment paint condition
- Proper equipment ID labels

### XII Substation (Distribution) - Annual Inspection Guide

- Check equipment for level
- Check condition of concrete pads
- Nameplate legible
- Equipment paint condition
- Proper equipment ID labels

### 26

## ANNUAL DISTRIBUTION SUBSTATION INSPECTION FORM

	MAINTENANCE COMPLETED	Corrected By												
	MAIN	Date Item Corrected		:										
Substation	COMMENTS	Rating Criteria												
		KEI scans and checks												
	RIA	Proper identification labels							 <u></u>					
	CRITE	Equipment paint condition							ļ <u>.</u>					
	CTION	Asmeplate legible				*								
spected by _	SUBSTATION INSPECTION CRITERIA		100					l.			100 m	1000		To the second
lsu	SUB	Check condition of concrete pads												
		Check equipment for level												103
Date		EQUIPMENT LISTING	Fransformer	LTC or regulators	High Voltage Breaker		Feeder CBs / Reclosers			Switches				Transmission line RFI

# ANNUAL PURCHASE POINT SUBSTATION INSPECTION FORM

벌			$\perp$	$\perp$	_								_	-		
MAINTENANCE COMPLETED	Date Item Corrected															
COMMENTS	Rating Criteria  1) Good Condition but aging 2) Non-critical Maintenance Required 3) Priority Maintenance Required 4) Urgent Maintenace Required															
	RFI scans and checks							_				-	-			
SIA	Proper identification labels		_		-	-	-		 						1 10	
CRITER	Equipment paint condition					-	-		<u> </u>	<u> </u>			-		1869 1869 1869	
) NOIL:	əldigəl ətsiqəmsM												est si			
TION INSPEC	esistance, Individual cell voltages,		15) (4)												100	
JBSTA1											M.		erer Pro-			
ੀ   	Check condition of concrete pads				$\perp$					-			_			
	Check equipment for level		-		-			_		_	-					
	EQUIPMENT LISTING	ransformer	TC or regulators	ligh Voltage Breaker		eeder CBs / Reclosers				initohoo.	SWICHES				12	Transmission line KFI
		SUBSTATION INSPECTION CRITERIA  Check equipment for level  Check condition of concrete pads  Call specific gravity  Call specific gravity  Call specific gravity  Call specific gravity  Rating Criteria  Call specific gravity  Call specific gravity  Call specific gravity  Rating Criteria  Call specific gravity  Call specific gravity  Call specific gravity  Rating Criteria  Animeplate legible  Call specific gravity  Call specific gravity  Call specific gravity  Rating Criteria  Animeplate legible  Call specific gravity  Animeplate legible  Proper identification labels  Equipment paint condition but aging  Proper identification har aging  REFI scans and checks  Proper identification but aging  Proper identification har aging  REFI scans and checks  Call specific gravity Maintenance Required  Proper identification har aging  REFI scans Rating Criteria	SUBSTATION INSPECTION CRITERIA  SUBSTATION INSPECTION CRITERIA  SUBSTATION INSPECTION CRITERIA  Check equipment for level  Check equipment for condition of concrete pads  Check condition of concrete pads  Battery checks - Intercell strap  Check condition of concrete pads  Check equipment paint condition but aging  Check equipment paint condition but aging  Check condition but aging  Check equipment paint condition but aging  Check condition but aging  Check equipment paint condition but aging	SUBSTATION INSPECTION CRITERIA  Check equipment for level Check condition of concrete pads Check condition of concrete pads Check condition of condition but aging Check condition labels Retired Check condition but aging Check	SUBSTATION INSPECTION CRITERIA  SUBSTATION INSPECTION CRITERIA  Check equipment for level Check condition of concrete pads Check condition of concrete pads Check condition of concrete pads Check condition of checks Check condition labels  Nameplate legible Cell specific gravity Nameplate legible Droper identification labels  RELI scans and checks  Non-critical Maintenance Required Proper identification but aging RELI scans and 4) Urgent Maintenance Required	SUBSTATION INSPECTION CRITERIA  Check equipment for level  Check condition of concrete pads  Check condition of concrete pads  Check condition of concrete pads  Check condition of condition  Rating Criteria  Rating Criteria  Check condition but aging  Mameplate legible  Equipment paint condition but aging  Proper identification labels  REFI scans and checks  REFI scans and checks  Proper identification but aging  REFI scans Required  Proper Maintenance Required  REFI scans Required	SUBSTATION INSPECTION CRITERIA  SUBSTATION INSPECTION CRITERIA  Check equipment for level  Battery checks - Intercell strap Check condition of concrete pads  Battery checks - Intercell strap Cell specific gravity  Nameplate legible  Cell specific gravity  Nameplate legible  Proper identification labels  Cell specific gravity  Nameplate legible  REI scans and checks  Cell specific gravity  REI scans and checks  REI scans and checks  REI scans and checks  Cell specific gravity  Nameplate legible  REI scans and checks  REI scans and checks  Condition but aging  Proper identification labels  REI scans and checks  REI scans and checks	Check equipment for level  Check condition of concrete pads  Check condition of concrete pads  Check condition of concrete pads  Cell specific gravity  Cell specific gravity  Nameplate legible  Equipment paint condition but aging  Nameplate legible  Equipment paint condition but aging  Proper identification labels  REI scans and checks  REI scans Required  Proper identification Maintenance Required  Proper identification Maintenance Required  REI scans Required	SUBSTATION INSPECTION CRITERA  Check equipment for level  Check condition of concrete pads  Check condition of concrete pads  Check condition of concrete pads  Rating Criteria  Wameplate legible  Equipment paint condition but aging  Proper identification labels  Equipment paint condition but aging  Proper identification labels  Rating Criteria  Wameplate legible  Equipment paint condition but aging  Proper identification labels  Rating Criteria  Wameplate legible  FRFI scans and checks  Proper identification but aging  RRFI scans A) Urgent Maintenance Required	SUBSTATION INSPECTION CRITERA  Check equipment for level  Check condition of concrete pads  Check concrete p	SUBSTATION INSPECTION CRITERIA  Check equipment for level  Check condition of concrete pads  Check condition but aging  Check condition but aging  Proper identification labels  Equipment paint condition but aging  Proper identification but aging	Substanton inspection of concrete pads Check equipment for level Check condition of concrete pads Check condition but aging Check co	Check equipment for level  Check equipment for level  Check condition of concrete pads  Check condition but aging  Check condition but	Check equipment for level  Check condition of concrete pads  Proper identification labels  Equipment paint condition  Wameplate legible  Equipment paint condition  Proper identification labels  Equipment paint condition  Rating Criteria  Rating Criteria  Proper identification labels  Rating Criteria  Proper identification labels  Rating Criteria  Nameplate Reguired  A) Urgent Maintenance Required  COMMENTS	Check equipment for level  Check condition of concrete pads  Check condition of concrete pads  Cell specific gravity  Rating Criteria  Rating Criteria  Rating Criteria  Resistance, Individual condition but aging  Resistance individual condi	Check equipment for level  Check condition of concrete pads  Check condition of concrete pads  Check condition of concrete pads  General atrap  Cell specific gravity  Namental cell voltages,  Cell specific gravity  Reting Criteria  Proper identification but aging  RET scans and checks  A) Driority Maintenance Required  A) Urgent Maintenance Required  Comments